

CLAIMS

1. A profile (1) for frames of wall elements, doors or windows, having a top part (16) and a bottom part (2), each containing an end wall (32, 33), and having side walls (3, 4) which connect the top part (16) and bottom part (2) and have obliquely running webs (5), characterized in that the side walls (3, 4) are welded to the top part (16) and to the bottom part, the height (h) of the side walls being less than or equal to the distance (A) between the end walls (32, 33) of the top part (16) and bottom part (2).
2. The profile (1) as claimed in claim 1, characterized in that the top part (16) and/or the bottom part (2) have at least one angular deviation (6), running parallel to a side wall (3, 4), for the formation of a contact surface (7), and in that the side walls (3, 4) are welded to the top part (16) and/or the bottom part (2) in the region of the contact surface (7).
3. The profile (1) as claimed in claim 1 or 2, characterized in that the side walls (3, 4) are disposed on the inner side.
4. The profile (1) as claimed in one or more of claims 1 to 3, characterized in that at least one side wall (3, 4) has respectively laterally disposed, preferably U-shaped mountings (8) for the reception of a side element (9).
5. The profile (1) as claimed in one of claims 1 to 4, characterized in that the side walls (3, 4) have parallel-running guide grooves (10).
6. The profile (1) as claimed in one or more of claims 1 to 5, characterized in that the webs (5) are configured as a row of approximately V-shaped arrangements.

7. The profile (1) as claimed in one or more of claims 1 to 6, characterized in that a lining (12) is attached to the side walls (3, 4).
8. The profile (1) as claimed in one or more of claims 1 to 7, characterized in that the chamber (13) formed by the side walls (3, 4), the top part (16) and the bottom part (2) at least partially contains insulation material.
9. The profile (1) as claimed in one or more of claims 1 to 8, characterized in that the top part (16) and the bottom part (2) respectively have angular deviations (6), on which there are disposed inwardly directed end faces (22) provided with a stop (23) for a side wall (3, 4).
10. The profile (1) as claimed in claim 9, characterized in that the angle (α), formed by an angular deviation (6) or a stop (23) and an end face (22), lies preferably between 5° and 135° , preferentially between 20° and 90° , and especially preferentially at about 90° .
11. The profile (1) as claimed in claim 10, characterized in that the inwardly directed end faces (22) and the stop (23) form a groove (25) for the reception of side walls (3, 4) and preferably of side elements (9).
12. The profile (1) as claimed in one of claims 10 and 11, characterized in that the side walls (3, 4) are welded to the end faces (22).
13. The profile (1) as claimed in one of claims 10 and 11, characterized in that the side walls (3, 4) are welded to the stops (23).
14. The profile (1) as claimed in one or more of claims 1 to 13, characterized in that the top part (16) and bottom part (2) consist of steel and the side walls (3, 4) of a material

having lower thermal conductivity than steel, especially of high-grade steel.

15. The profile (1) as claimed in one or more of claims 1 to 14, characterized in that a web (5) has a bead (26) running in the longitudinal direction of the web.
16. A profile (1), especially as claimed in one of the preceding claims, for frames of wall elements, doors or windows, having a top part (16) and a bottom part (2) and side walls (3, 4) which connect the same and having openings (11), characterized in that on the side walls (3, 4), in the region of the openings (11), there are provided inwardly deformable cams (27) for the fixing of insulation material (28).
17. The profile (1) as claimed in claim 16, characterized in that the insulation material (28) is held by the cams (27) in a non-positive and/or positive manner.
18. The profile (1) as claimed in claim 16 or 17, characterized in that a cam (27) is disposed approximately centrally in the region of the base (29) of an opening (11).
19. The profile (1) as claimed in one of the preceding claims, characterized in that the insulation material (28) is disposed in the region of the side walls (3, 4), an upper and lower chamber (30, 31) being formed.
20. A method for producing a profile (1), especially as claimed in one of claims 16 to 19, for frames of wall elements, doors or windows, having a top part (16), a bottom part (2) and side walls (3, 4) which connect the same, insulation material (28) being provided between the side walls (3, 4), characterized in that insulation material is fixed in the profile (1) by deformation of the side walls (3, 4).
21. The method as claimed in claim 20 for producing a profile, the side walls (3, 4) of which additionally have webs (5),

and inwardly deformable cams (27) are provided for the fixing of insulation material (28), characterized in that the cams (27) are pressed in inward.

22. The method for producing a profile (1) as claimed in one of claims 20 and 21, characterized in that the cams (27) are pressed into the insulation material (28) or, through plastic deformation of the insulation material (28), engage positively in the latter.
23. A method for producing a profile (1), especially as claimed in one of claims 1 to 19, for frames of wall elements, doors or windows, having a top part (16), a bottom part (2) and side walls (3, 4) which connect the same, the side walls (3, 4) having webs (5), characterized in that openings (11) for the formation of the webs (5) are made in the side walls (3, 4), and in that the side walls (3, 4) are subsequently welded to the top part (16) and the bottom part (2).
24. A profile, produced according to one or more of claims 20, 21, 22 or 23.